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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,838	09/23/2005	Juli Yamashita	5703-010/NP	6048
27572 HARNESS DI	7590 12/26/2007 CKEV & DIERCE PI C	•	EXAMINER	
P.O. BOX 828	HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828		CARLOS, ALVIN LEABRES	
BLOOMFIELI	O HILLS, MI 48303		ART UNIT	PAPER NUMBER
			3714	
			MAIL DATE	DELIVERY MODE
			12/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/550,838	YAMASHITA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alvin L. Carlos	3714	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION (Community of the community of the	CATION. eply be timely filed THS from the mailing date of this communications BANDONED (35 U.S.C. § 133).	•
Status	·		
1) Responsive to communication(s) filed on <u>8</u>	<u>/13/2007</u> .		
2a) This action is FINAL . 2b) ⊠ 7	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matt	ers, prosecution as to the meri	its is
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
 4) Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) is/are withen 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and continuous continuous pending in the application and claim(s) are subject to restriction are subject to restriction and claim(s)	drawn from consideration.		
Application Papers	•		
9) The specification is objected to by the Exam 10) The drawing(s) filed on 23 September 2005 Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	is/are: a) accepted or b) the drawing(s) be held in abeyant rection is required if the drawing	ice. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.1	21(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage	3
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date $9/23/2005$, $06/02/2006$.	6) Other:		

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DETAILED ACTION

Information Disclosure Statement

The listing of references in the Search Report dated 9/23/2005 is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kirikae 4209919.

Re claim 1, Kirikae teaches a replica comprising a thin bone part being reproduced with physical properties close to those of real tissue (column 1 lines 38-40). In addition, considering the thin bone part having a thickness of not more than 0.1 mm, since the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235

Re claim 2, Kirikae teaches a replica comprising soft tissue being reproduced with physical properties close to those of real tissue (column 41-48).

Re claim 3, Kirikae teaches a part of replica is a breakable part that can be irreversibly broken during surgical manipulation (See figure 1, column 4 lines 22-32).

Re claim 4, Kirikae teaches a breakable part is replaceable (See figure 1 and 7, column 4 lines 33-39).

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Re claim 8, Kirikae teaches a part of said replica is a breakable part that can be irreversibly broken during surgical manipulation (See figure 1, column 4 lines 22-32).

3. Claims 5-7, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kirikae 4209919 in view of Swaelens 5768134.

Re claim 5, Kirikae teaches the invention as discussed above.

However, Kirikae fails to teach the following limitations as taught by Swaelens: a production method for a replica (column 1 lines 7-14), comprising creating shape data concerning a thin bone part by CAD (column 4 lines 5-8), and rapid prototyping thin bone part on a basis of shape data, thereby reproducing a part of a human body (column 3 lines 64-67 and column 4 lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kirikae's invention in view of Swaelens in order to provide a method for making a medical model on the basis of digital image information of a body part whereby the image information can be optimally used and can be put to use in practice as taught by Swaelens (column 2 lines 37-41).

In addition, considering the thin bone part having a thickness of not more than 0.1 mm, since the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235

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Re claim 6, Kirikae teaches the invention as discussed above. In addition, Kirikae teaches forming a resin coating on thin bone part (column 2 lines 14-18).

However, Kirikae fails to teach the following limitations as taught by Swaelens: rapid prototyping thin bone part (column 3 lines 64-67 and column 4 lines 1-3).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Kirikae's invention in view of Swaelens in order to provide a method for making a medical model on the basis of digital image information of a body part whereby the image information can be optimally used and can be put to use in practice as taught by Swaelens (column 2 lines 37-41).

Re claim 7, Kirikae teaches the invention as discussed above. In addition, Kirikae teaches a part of the human body is a paranasal sinus region (see figure 1, column 2 lines 41-43).

Re claim 9, Kirikae teaches the invention as discussed above. In addition, Kirikae teaches a part of the human body is a paranasal sinus region (see figure 1, column 2 lines 41-43).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as per the attached Notice of References Cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin L. Carlos whose telephone number is 571-

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(alternate Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Xuan Thai can be reached on (571) 272-7147. The fax phone number for

2703077. The examiner can normally be reached on 7:30am-5:00pm EST Mon-Fri

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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12/12/2007

RONALD LANEAU
PRIMARY EXAMINER

12/19/07